

FIG. 1

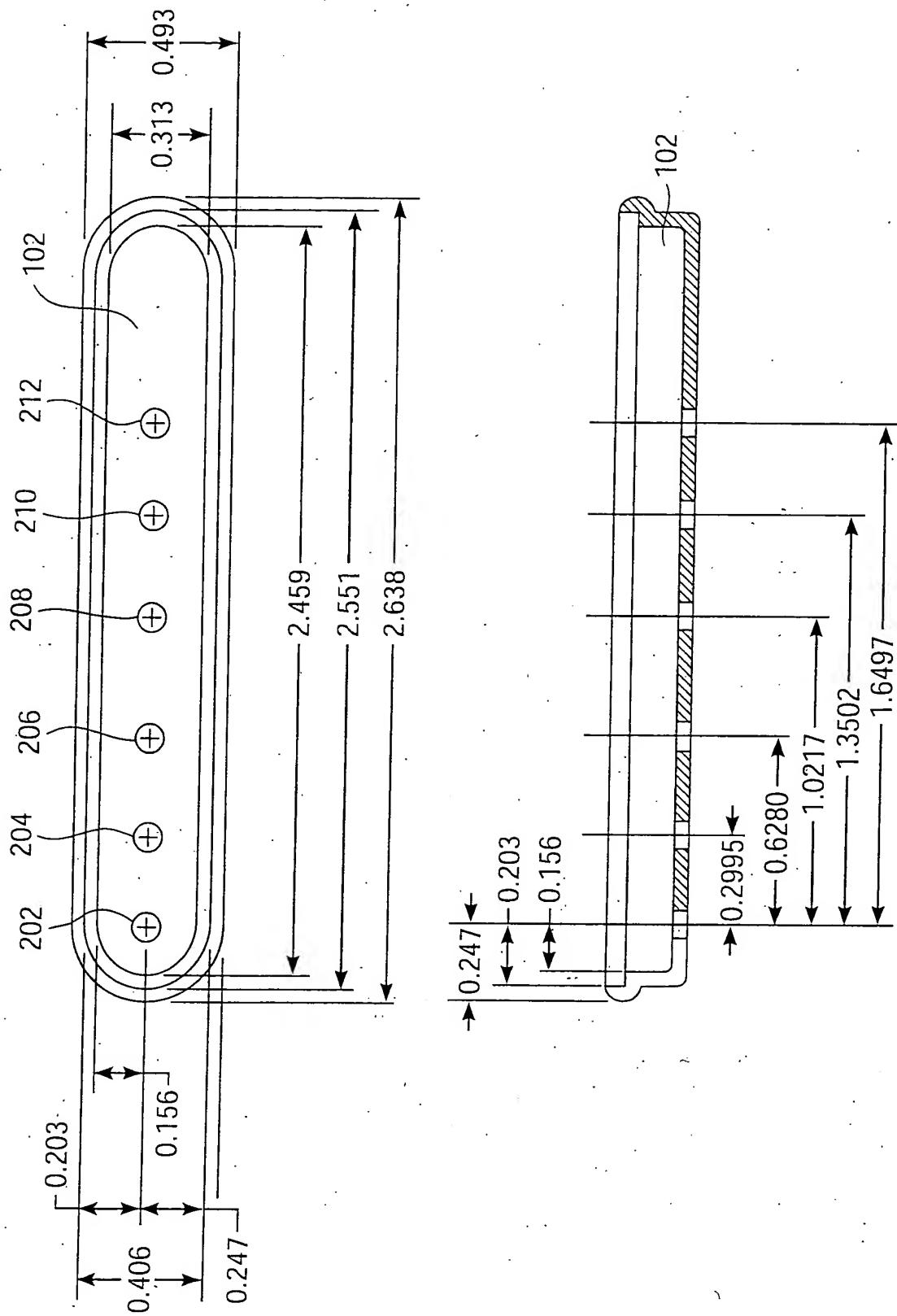


FIG. 2

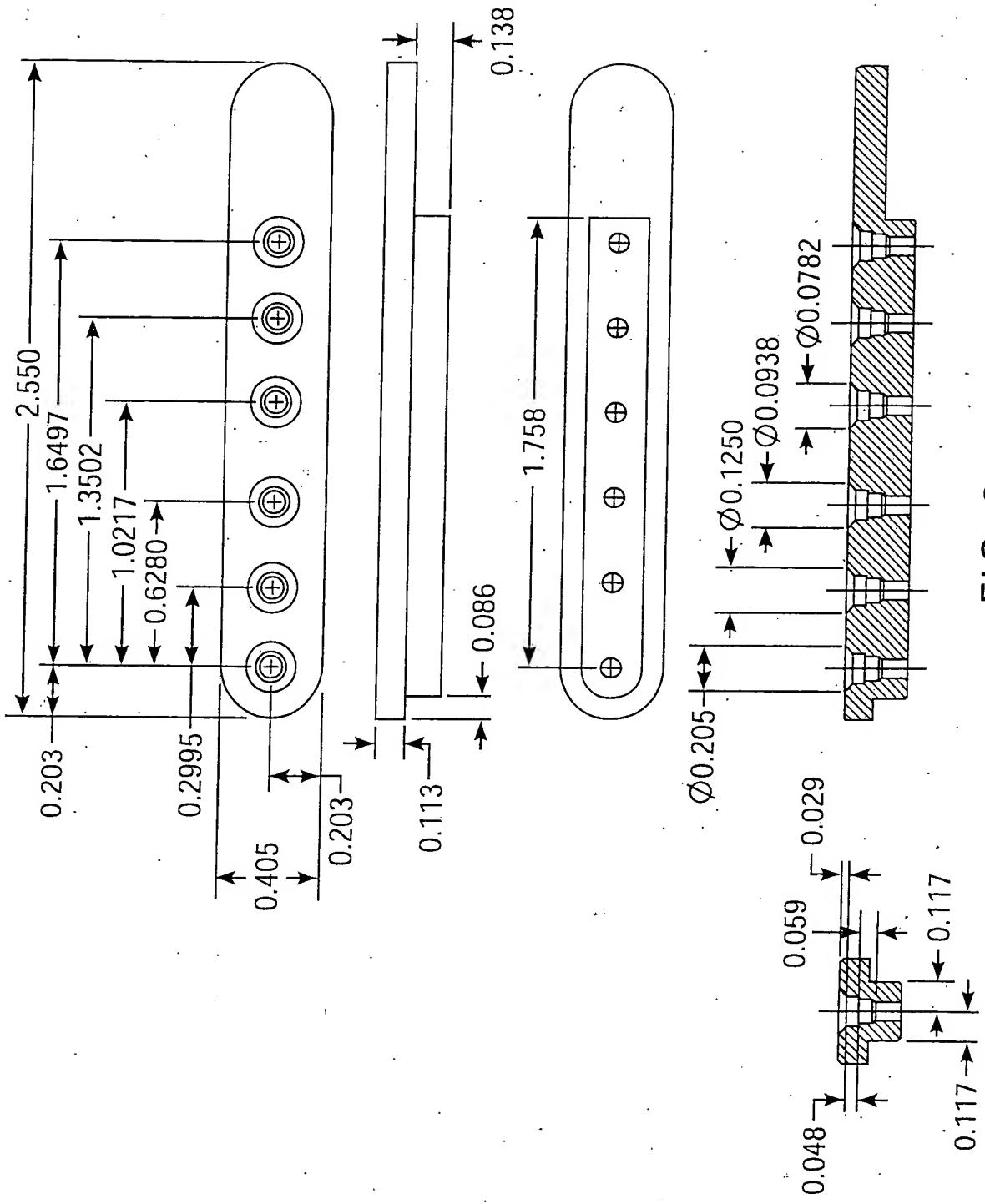


FIG. 3

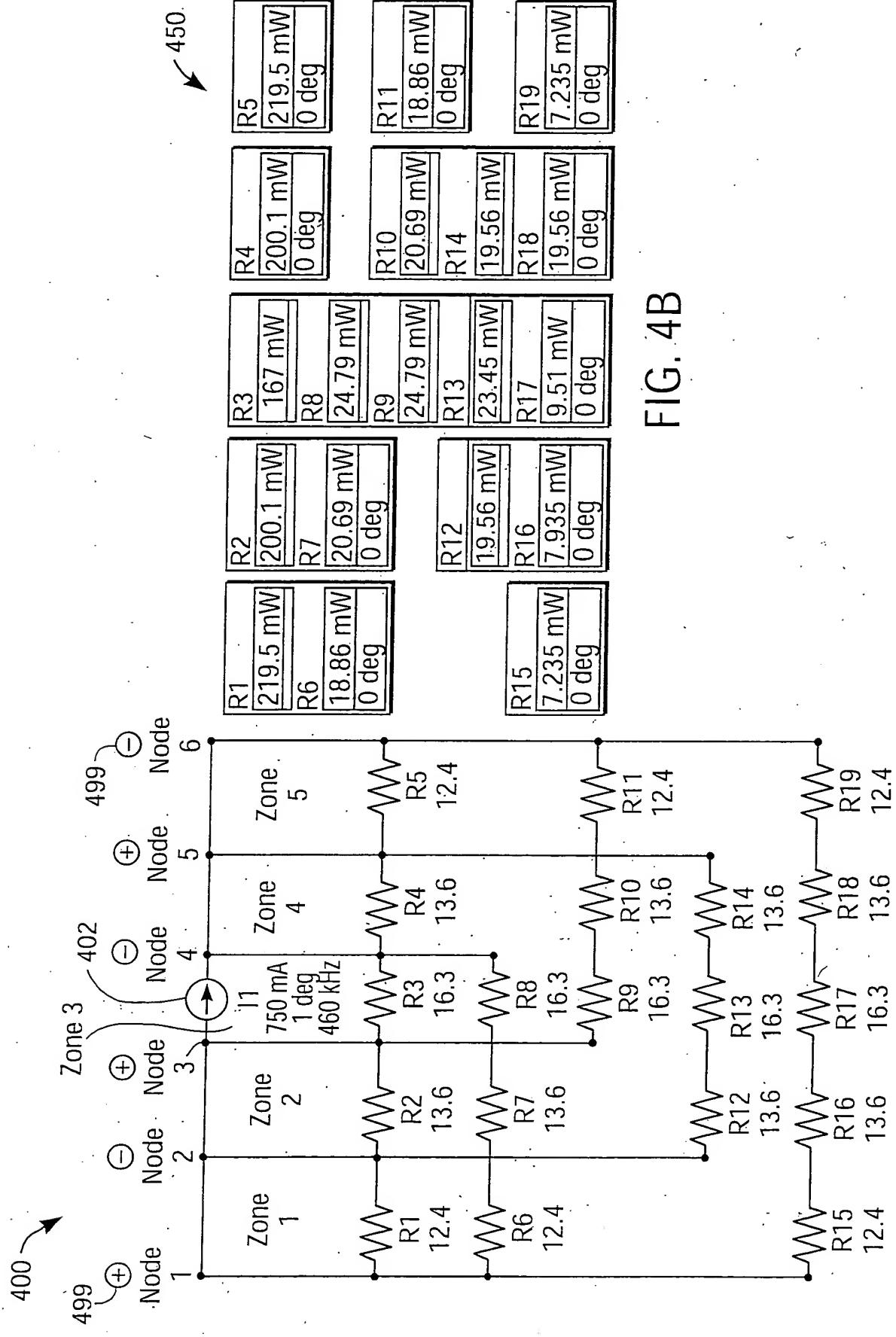


FIG. 4B

FIG. 4A

Values with Balanced Circuit \curvearrowleft 480

	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>	<u>Zone 4</u>	<u>Zone 5</u>
	219.5	200.1	167	200.1	219.5
	18.86	20.69	24.79	20.69	18.86
	7.235	19.56	24.79	19.56	7.235
		7.935	23.45	7.935	
			9.51		
	245.595	248.285	249.54	248.285	245.595

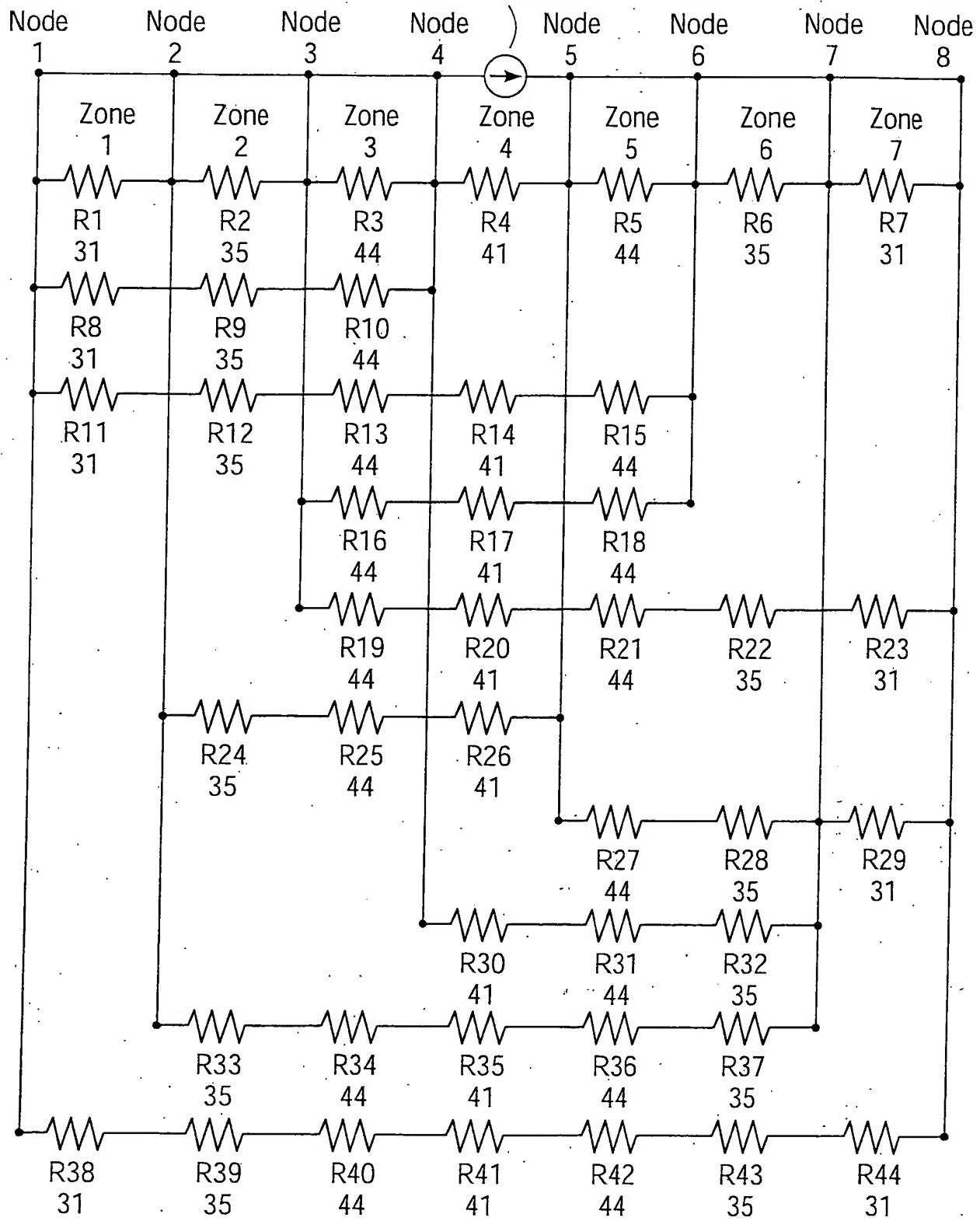
482 \curvearrowleft Total Power per Zone

% Error per Zone	0	-1.095299	-1.606303	-1.095299	0
"Spacing" Value per Zone	12.4	13.6	16.3	13.6	12.4
484 \curvearrowleft "Spacing" Ratio per Zone	1.00	1.097	1.315	1.097	1.00
486 \curvearrowleft "Spacing" Ratio per Zone	0.760736	0.834356	1	0.834356	0.760736
					4.190184

FIG. 4C

1 A, 1 Deg, 460 kHz

502



500

FIG. 5A

R1	R2	R3	R4	R5	R6	R7
503.1 mW	445.6 mW	354.5 mW	380.4 mW	354.5 mW	445.6 mW	503.1 mW
R8	R9	R10	0 deg	0 deg	0 deg	0 deg
39.96 mW	45.11 mW	56.71 mW				
R11	R12	R13	R14	R15	R22	R23
12.71 mW	14.36 mW	18.05 mW	16.82 mW	18.05 mW	14.36 mW	12.71 mW
0 deg	0 deg	R16	R17	R18	0 deg	0 deg
		41.24 mW	38.43 mW	41.24 mW		
R19	R20	R21	R22	R23	R28	R29
	18.05 mW	16.82 mW	18.05 mW	14.36 mW	56.71 mW	39.96 mW
R24	R25	R26	0 deg	0 deg	0 deg	0 deg
37.91 mW	47.65 mW	44.41 mW				
0 deg	0 deg	0 deg	R27	R28	R29	R30
			56.71 mW	45.11 mW	39.96 mW	44.41 mW
			R31	R32	R33	R34
			47.65 mW	37.91 mW	13.78 mW	17.33 mW
			R36	R37	R40	R41
			44.41 mW	44.41 mW	16.15 mW	10.07 mW
			R30	R31	R42	R43
			47.65 mW	47.65 mW	17.33 mW	9.387 mW
			R35	R36	R44	R45
			16.15 mW	16.15 mW	13.78 mW	8.013 mW
			R41	R42	R43	R44
			10.07 mW	10.07 mW	8.013 mW	7.097 mW
			0 deg	0 deg	0 deg	0 deg

FIG. 5B

↖ 550

Values with Balanced Circuit ~ 580

	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>	<u>Zone 4</u>	<u>Zone 5</u>	<u>Zone 6</u>	<u>Zone 7</u>
503.1	445.6	354.5	380.4	354.5	445.6	503.1	
39.96	45.11	56.71	16.82	18.05	14.36	12.71	
12.71	14.36	18.05	38.43	41.24	45.11	39.96	
7.097	37.91	41.24	16.82	18.05	37.91	7.097	
	13.78	18.05	44.41	56.71	13.78		
	8.013	47.65	44.41	47.65	8.013		
		17.33	16.15	17.33			
		10.07	9.387	10.07			
582 ~ Total Power per Zone	562.87	564.77	563.60	566.83	563.60	564.77	562.87
% Error per Zone	0.00	0.34	0.13	0.70	0.13	0.34	0.00
"Spacing" Value per Zone	31	35	44	41	44	35	31
584 ~ "Spacing" Ratio per Zone	1.000	1.129	1.419	1.323	1.419	1.129	1.000
586 ~ "Spacing" Ratio per Zone	0.704545	0.795455	1	0.931818	1	0.795455	0.704545

FIG. 5C

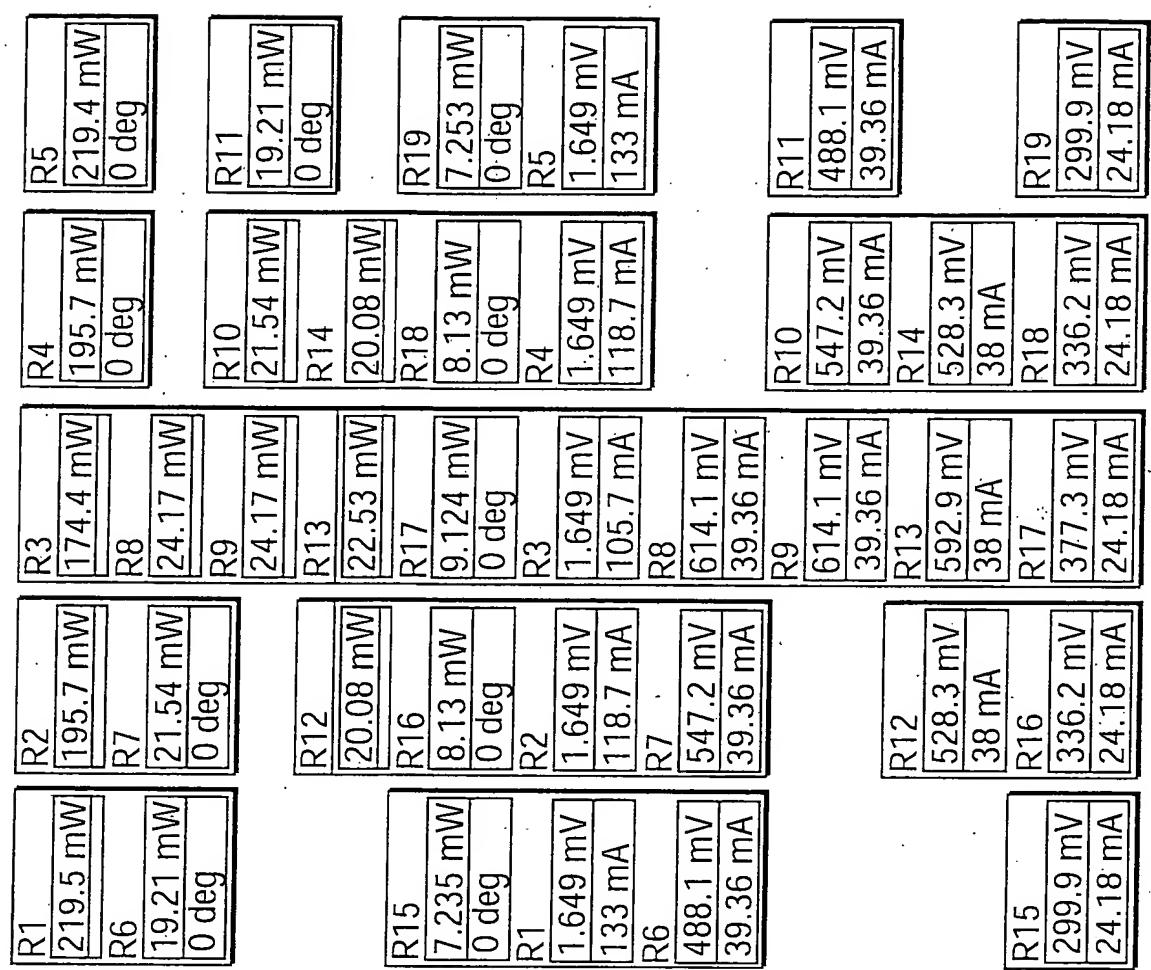
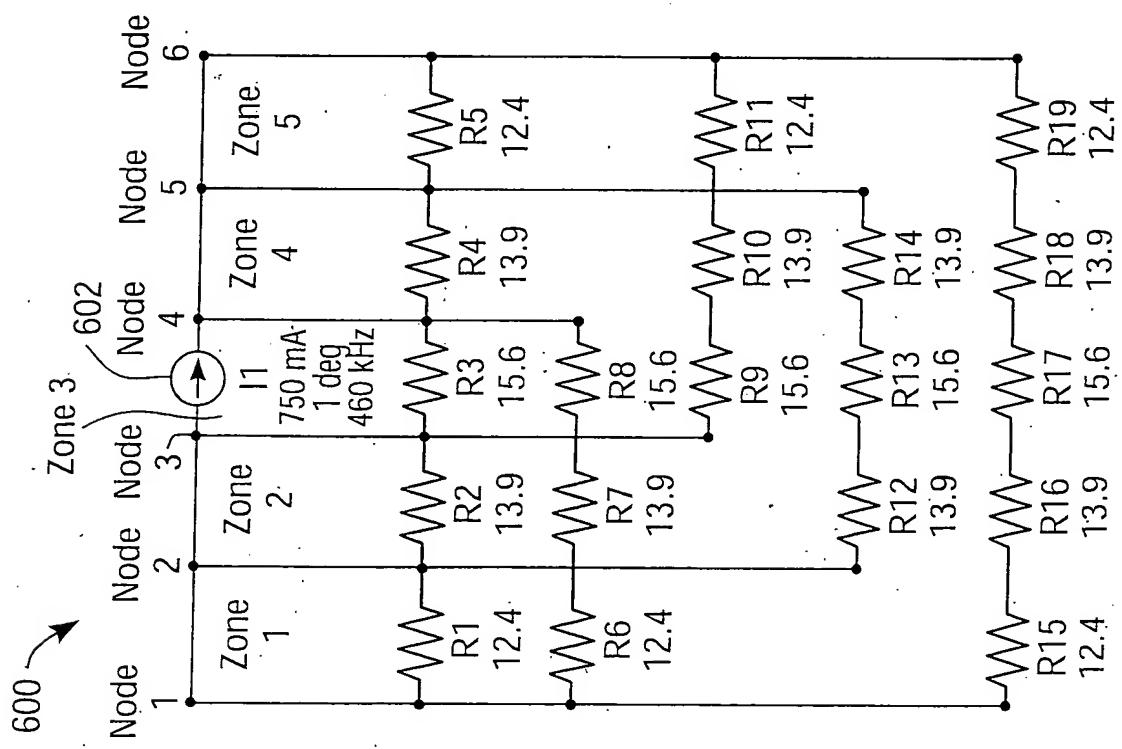


FIG. 6A

FIG. 6B

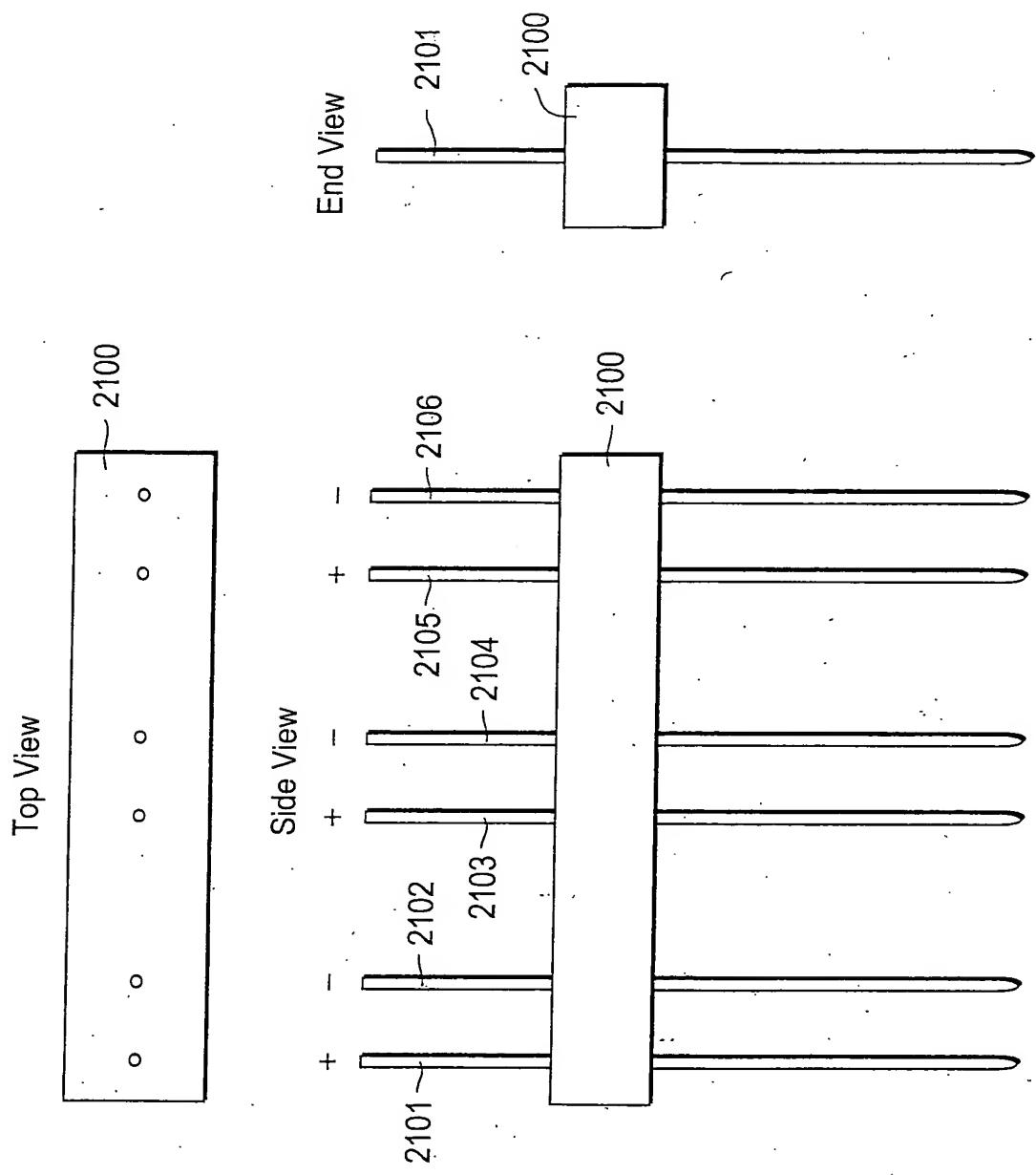


Values with Balanced Circuit \sim 680

	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>	<u>Zone 4</u>	<u>Zone 5</u>
133	118.7	105.7	118.7	133	
39.36	39.36	39.36	39.36	39.36	
24.18	38	39.36	38	24.18	
	24.18	38	24.18		
		24.18			
Total Current per Zone	196.54	220.24	246.6	220.24	196.54
"Spacing" Value per Zone	12.4	13.9	15.6	13.9	12.4
682 \sim Current Density per Zone	15.85	15.8446	15.80769	15.8446	15.85
% Error	0.0	0.0	0.3	0.0	0.0
684 \sim "Spacing" Ratio per Zone	1.00	1.12	1.26	1.12	1.00
686 \sim "Spacing" Ratio per Zone	0.79	0.89	1.00	0.89	0.79

FIG: 6C

FIG. 7



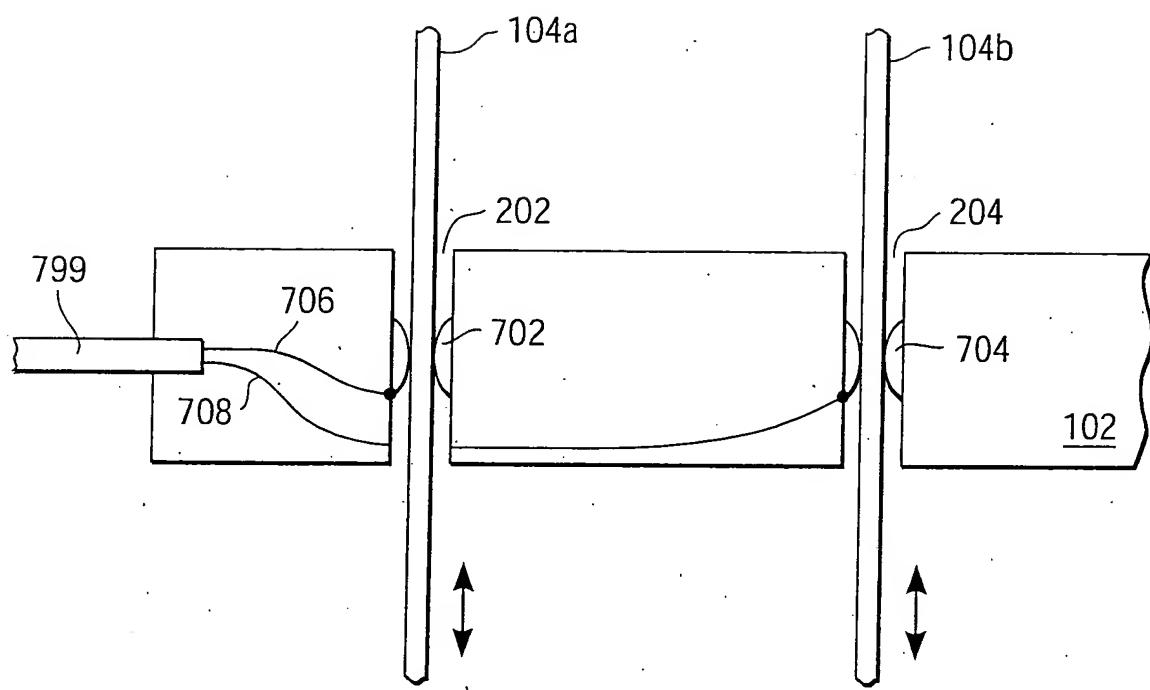


FIG. 8

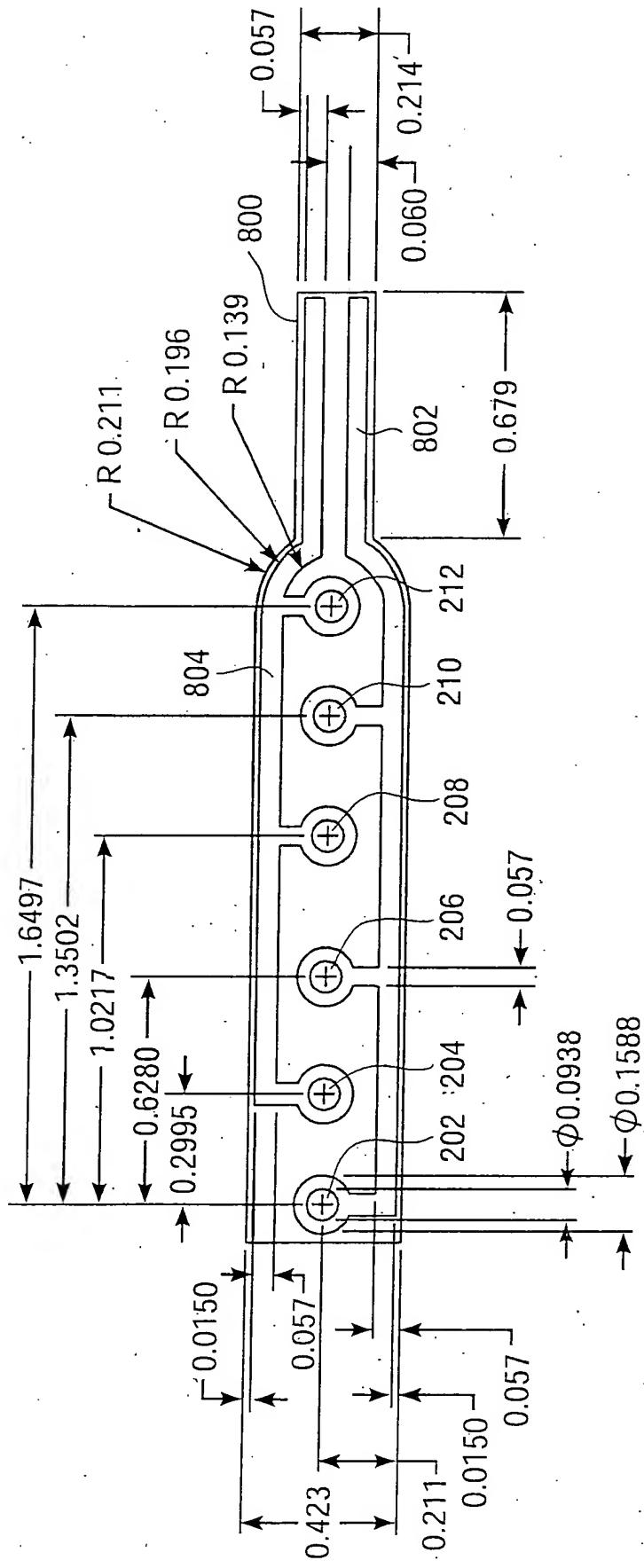


FIG. 9

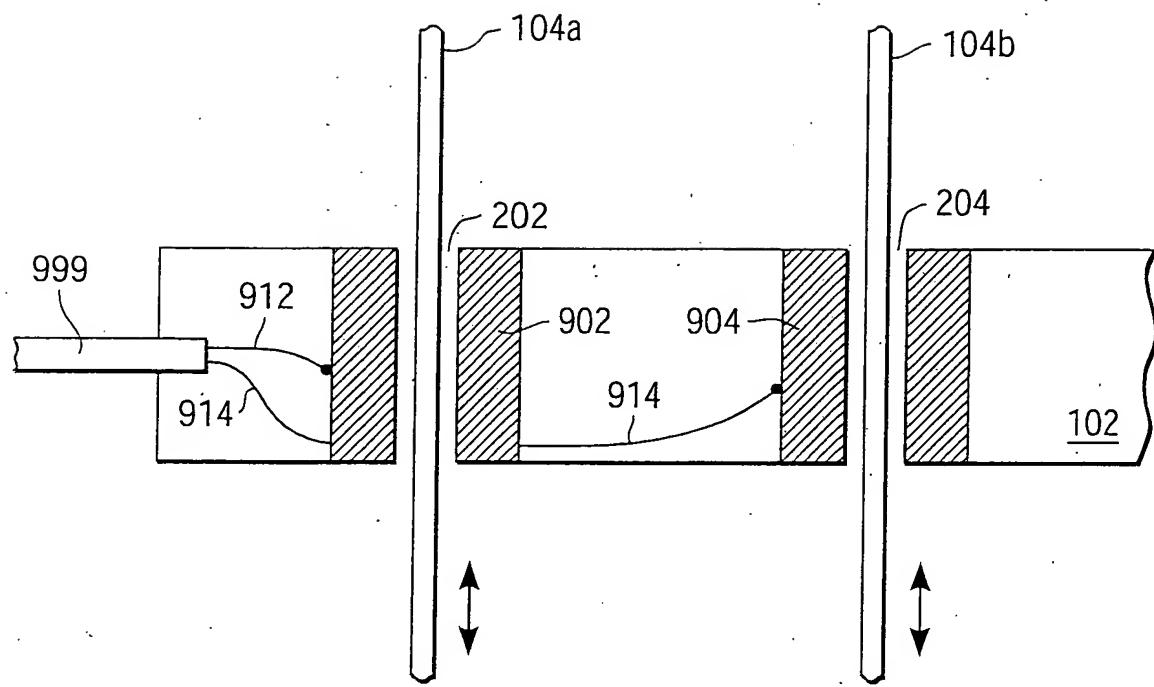


FIG. 10

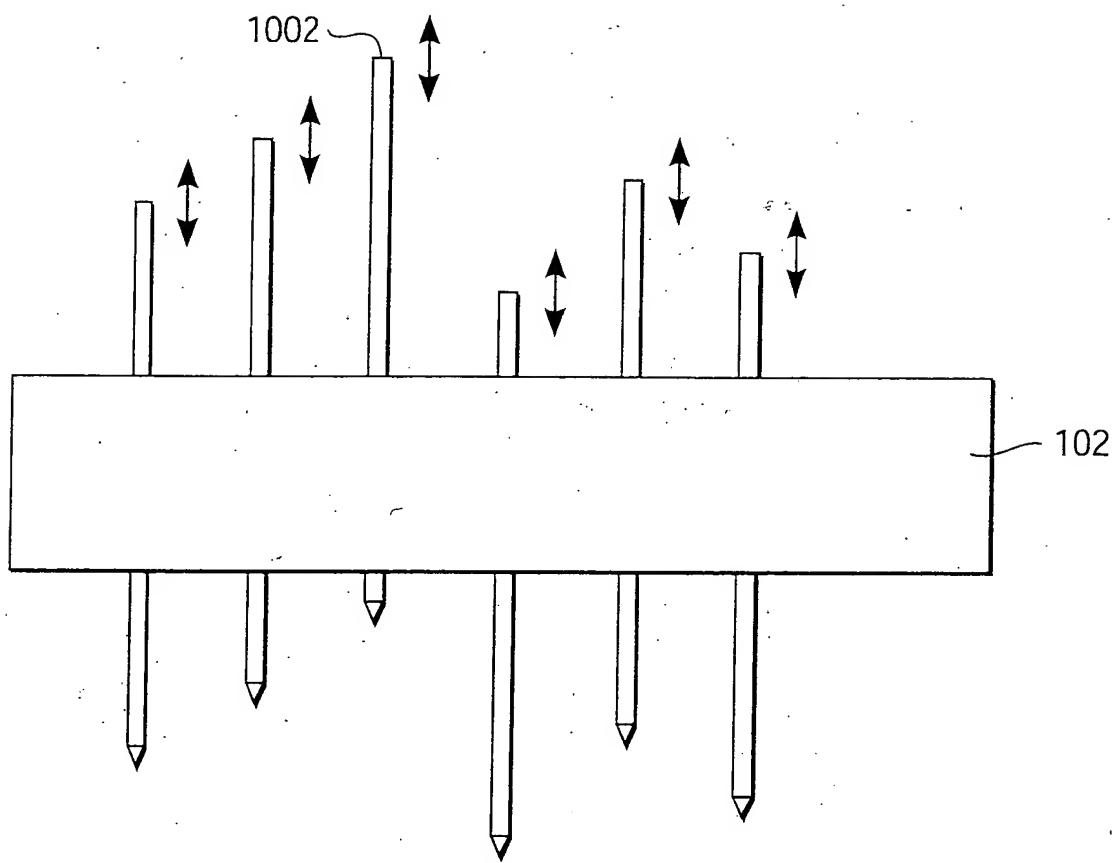


FIG. 11

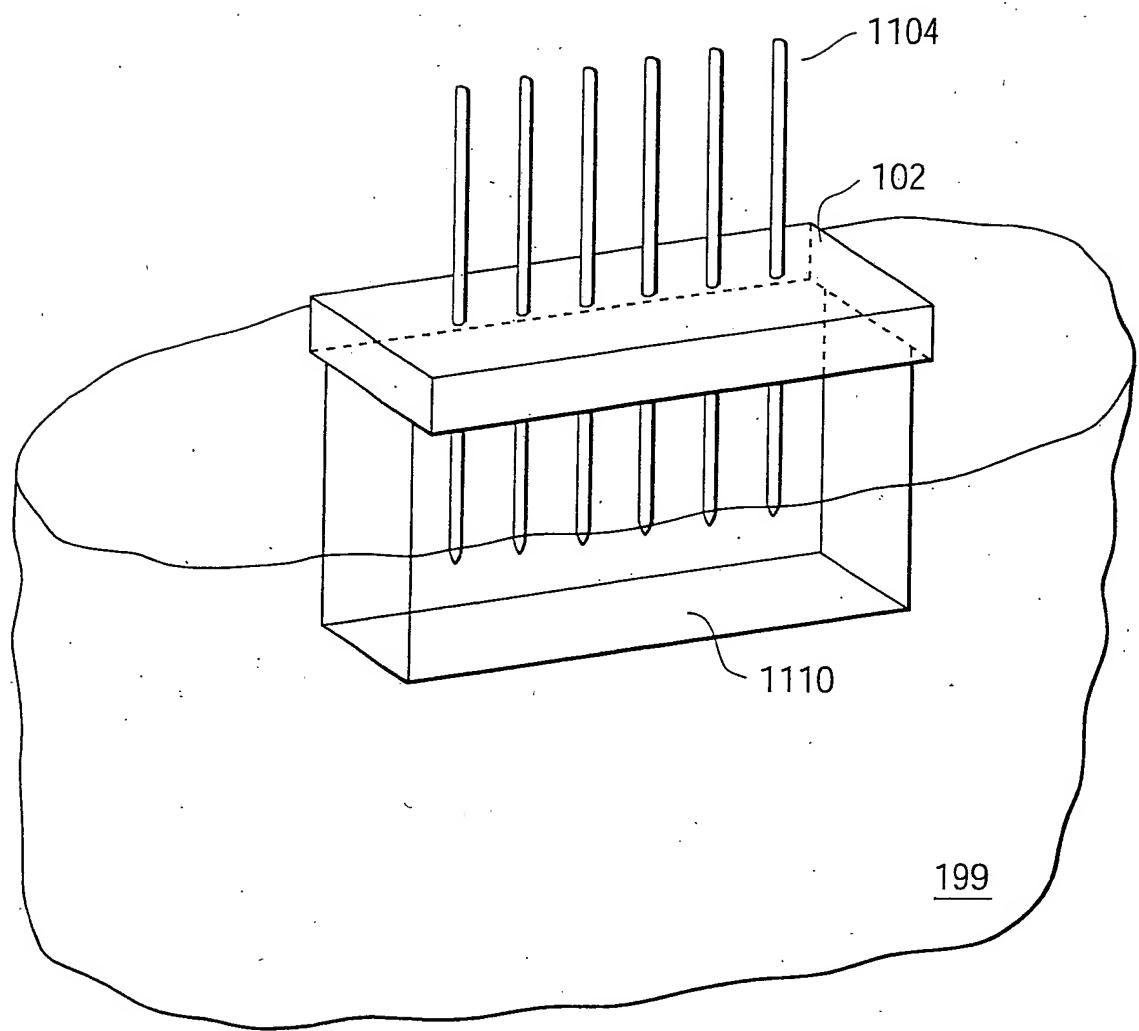


FIG. 12

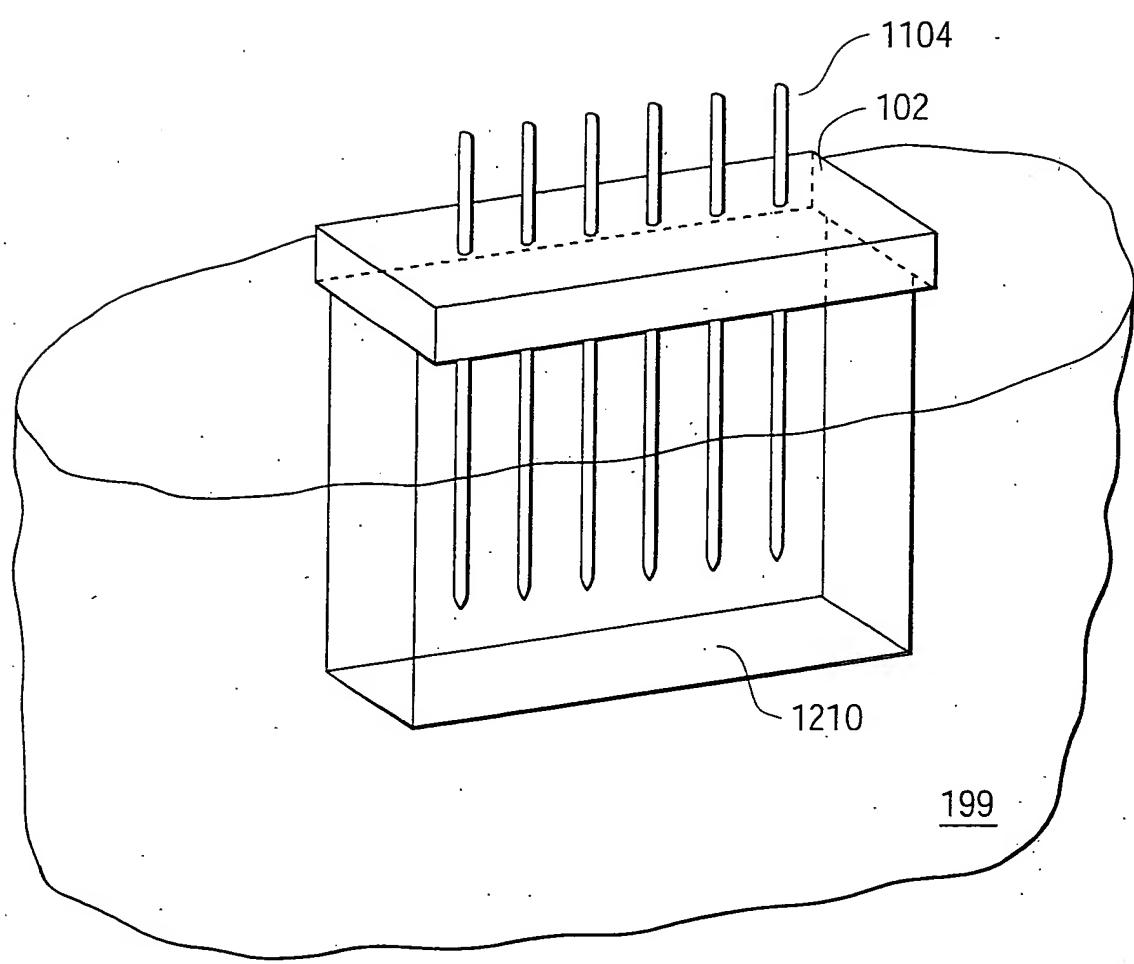


FIG. 13

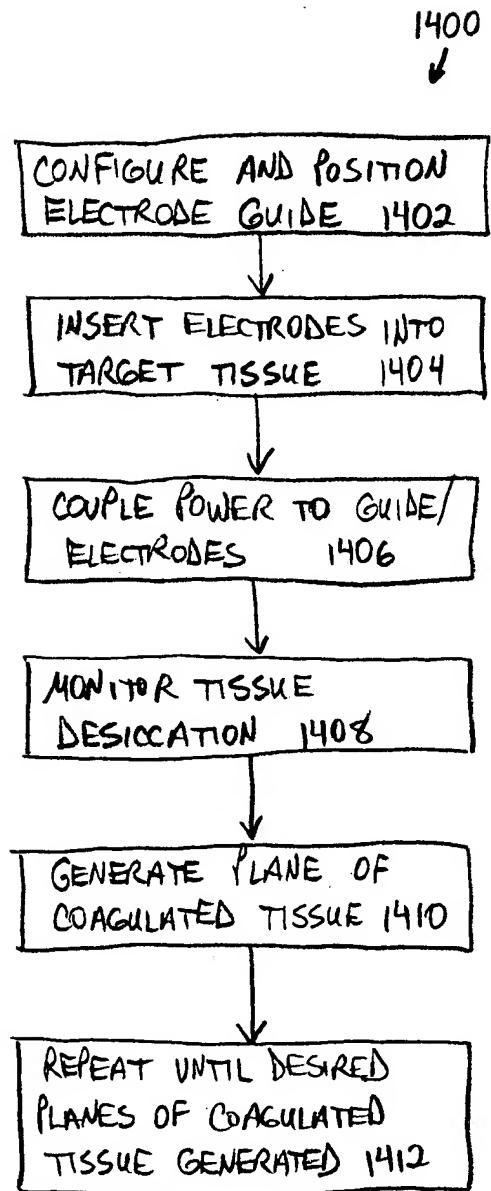


FIG. 14

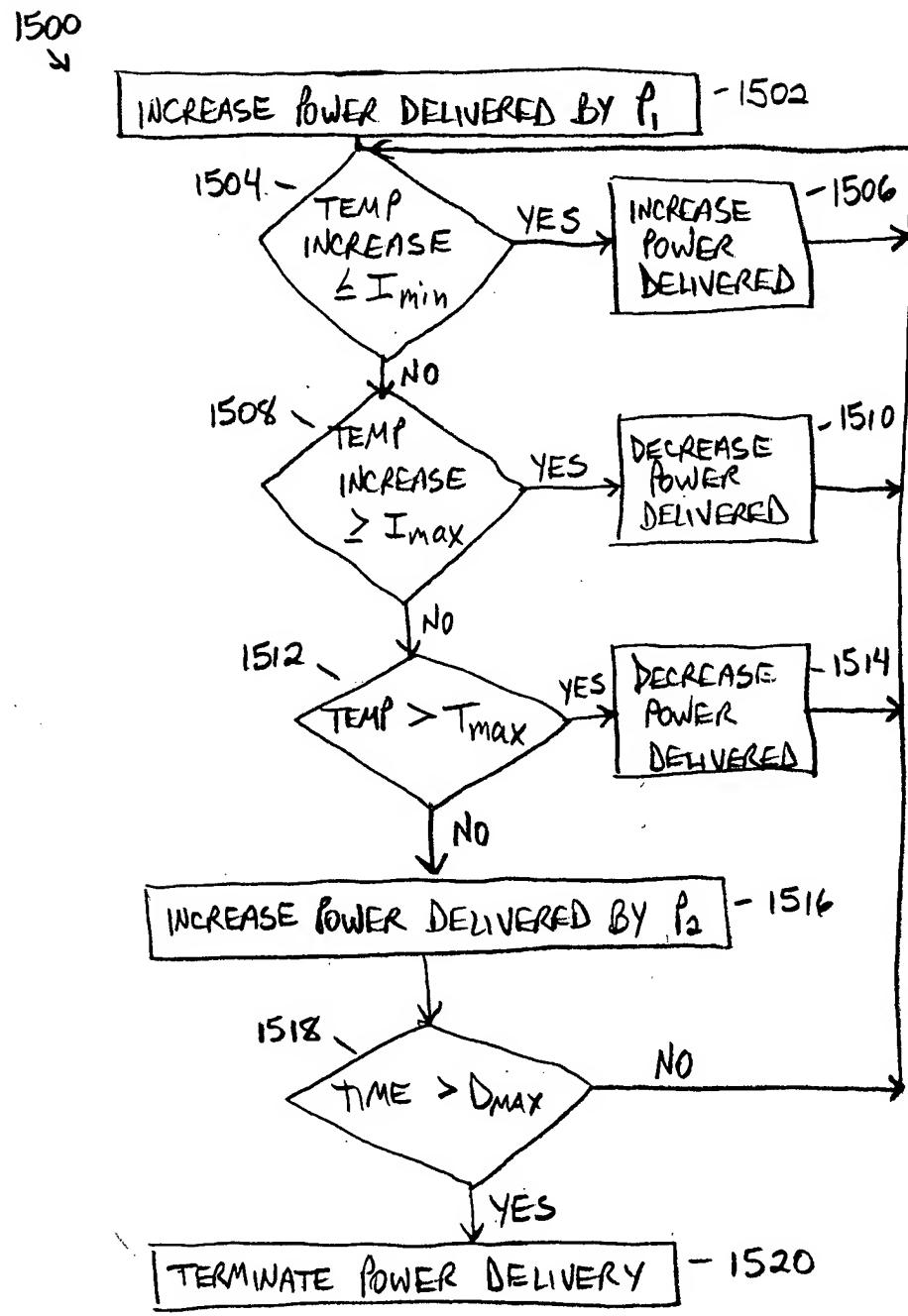


FIG. 15

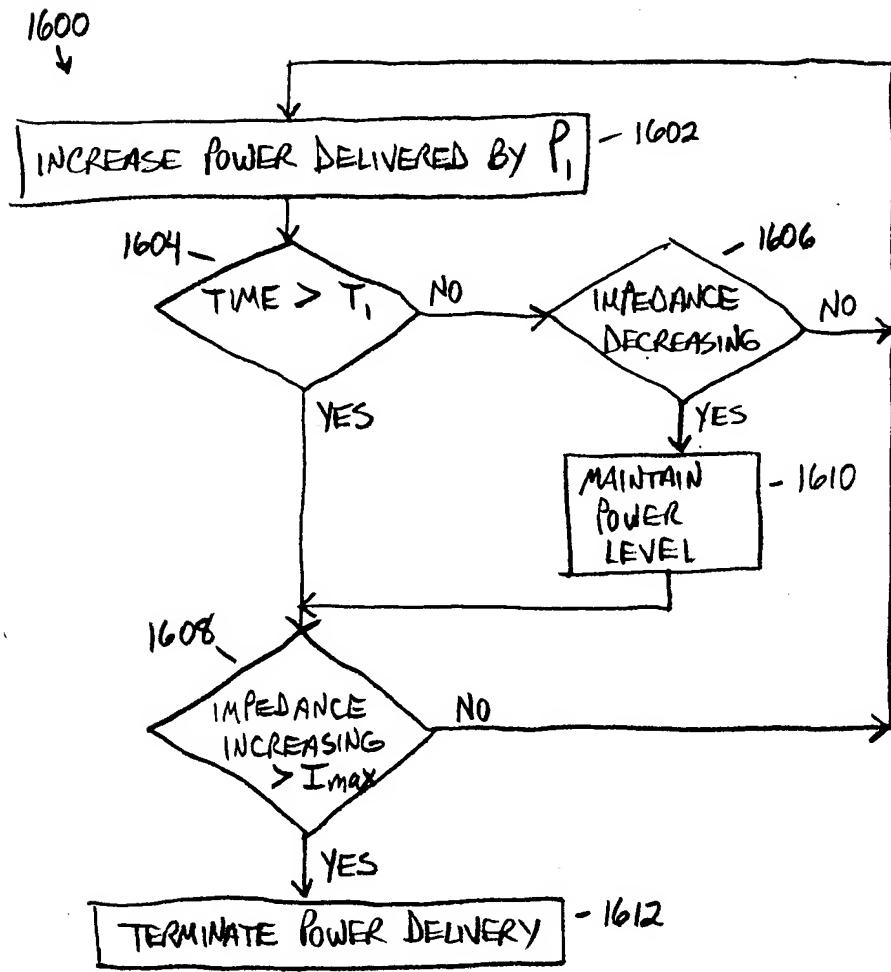


FIG. 16

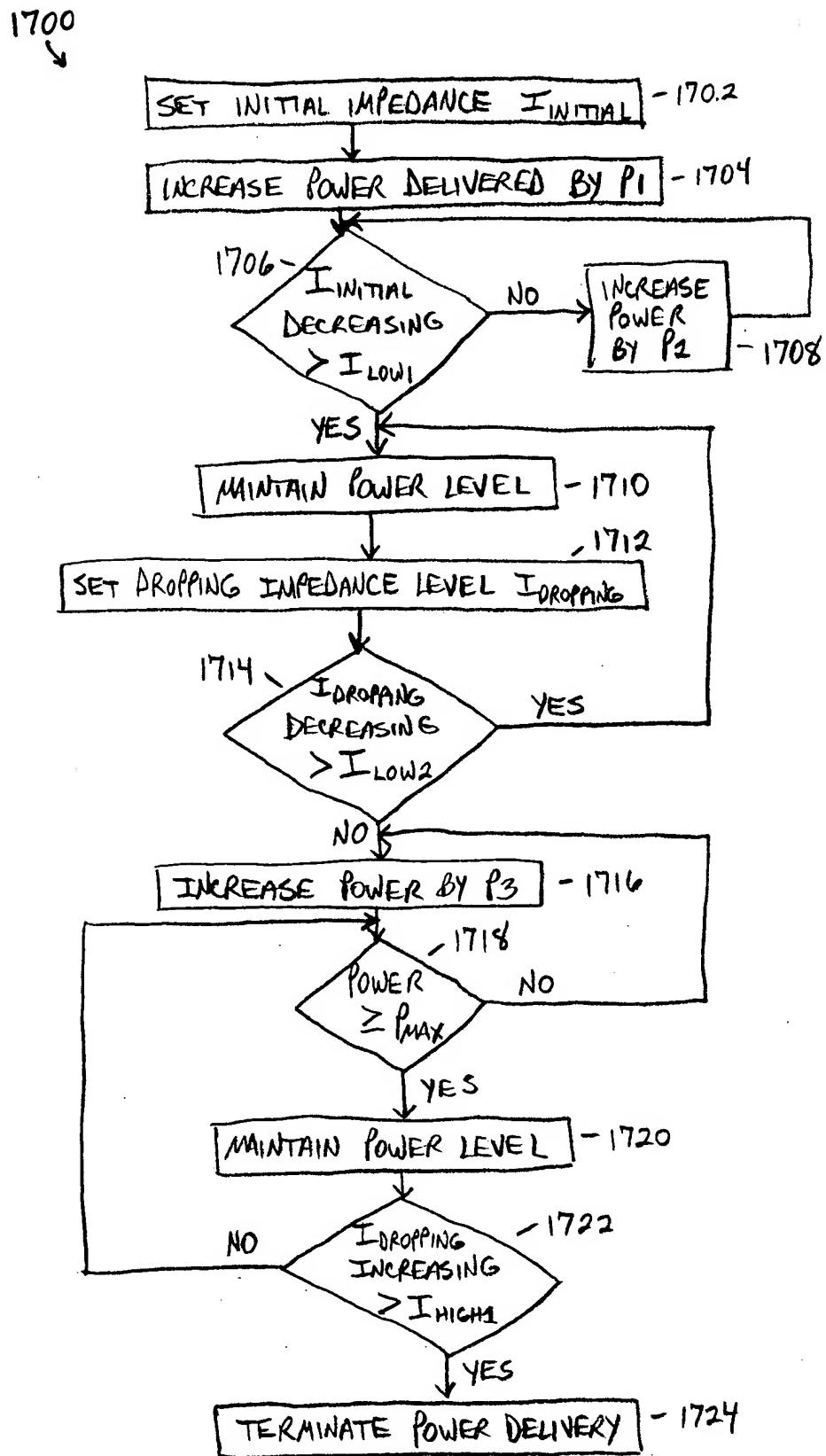


FIG. 17

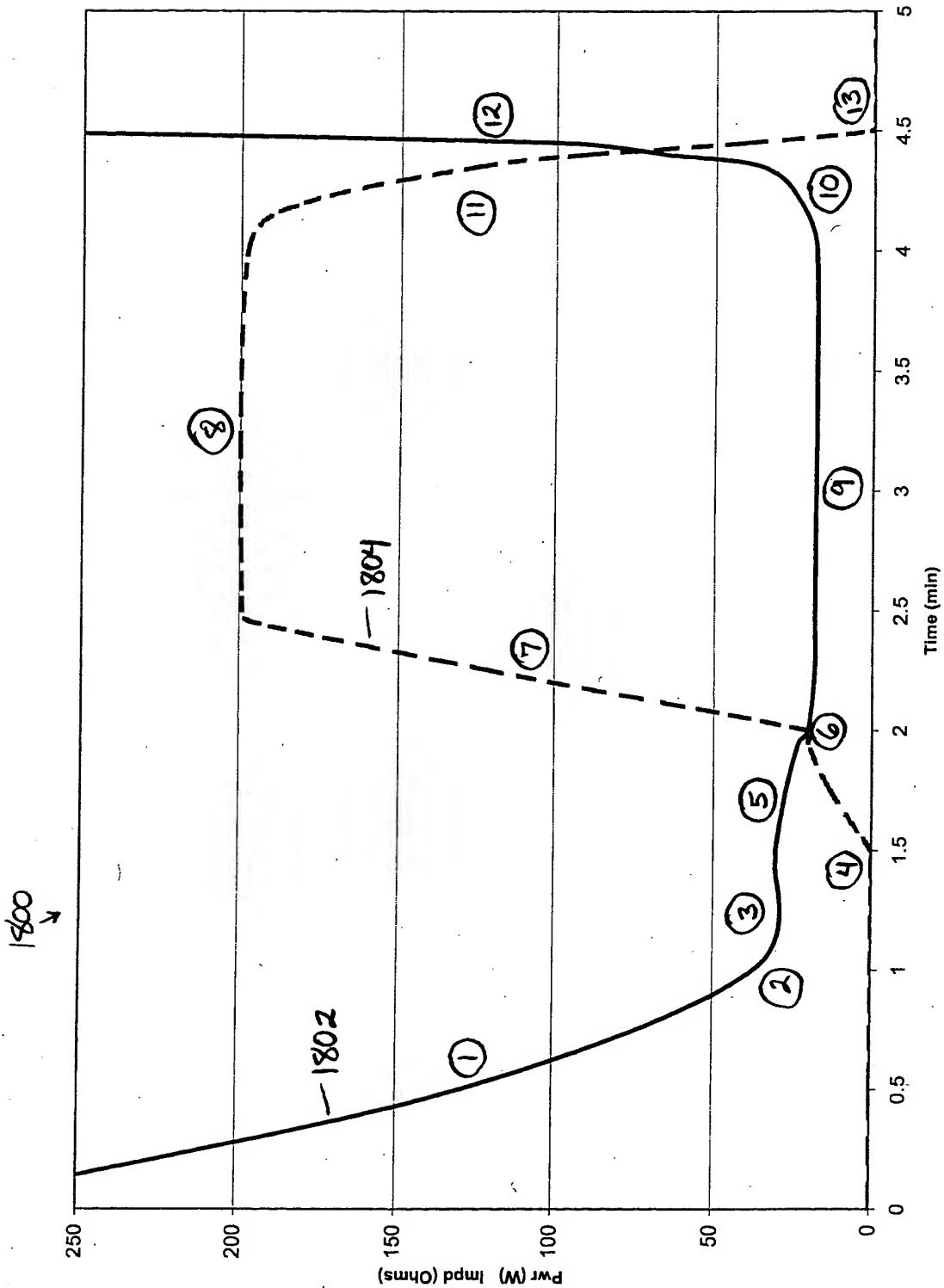


FIG. 18

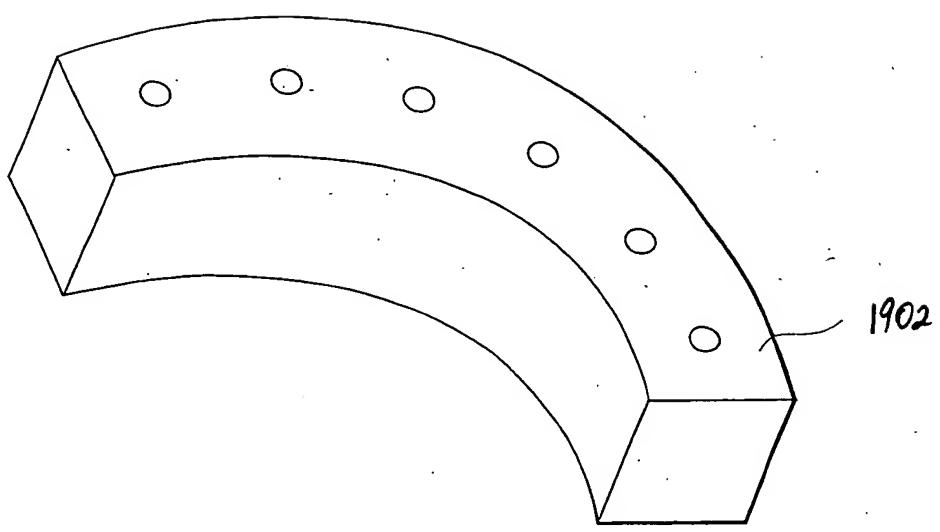


FIG. 19

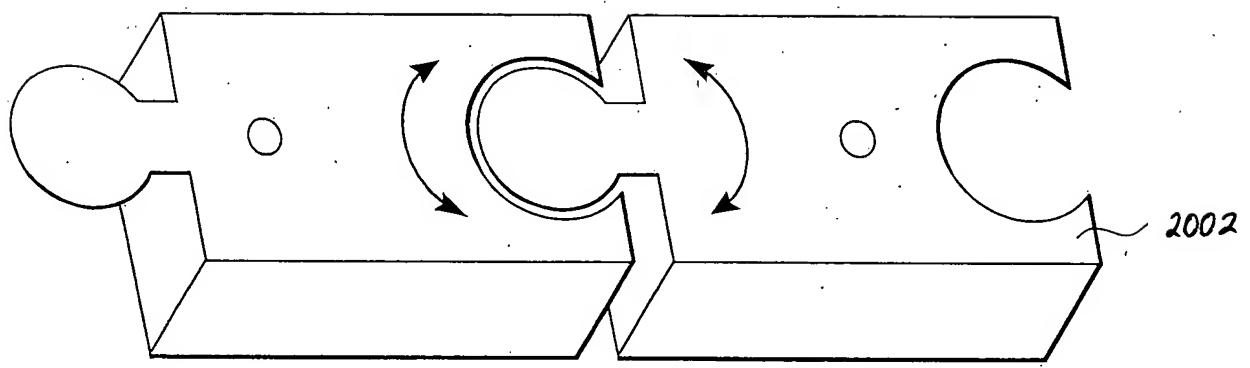


FIG. 20

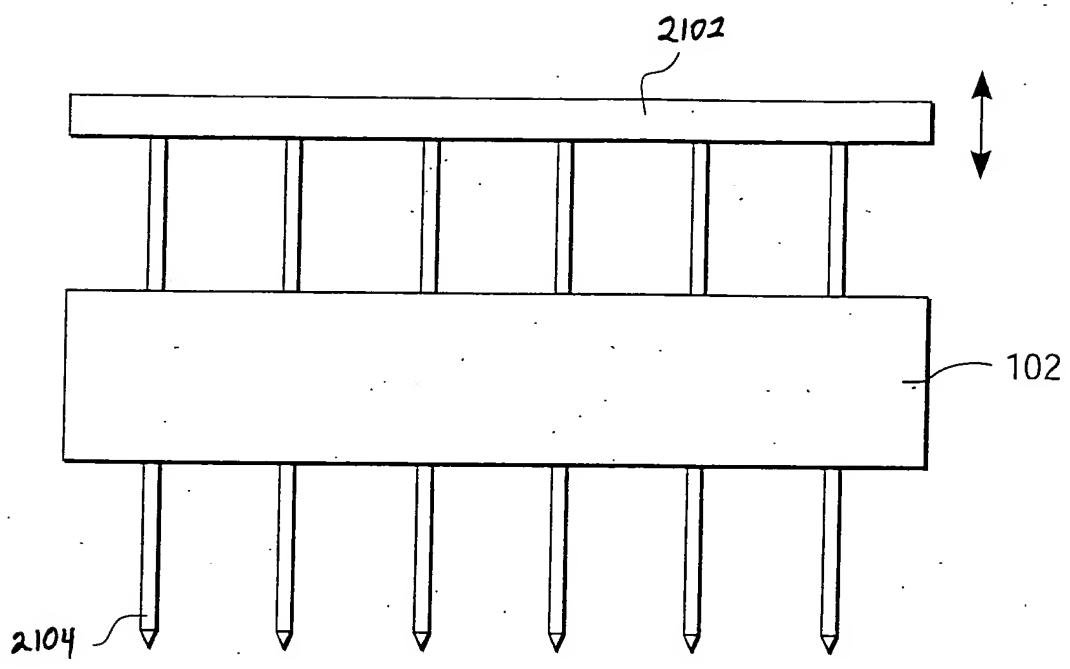


FIG. 21

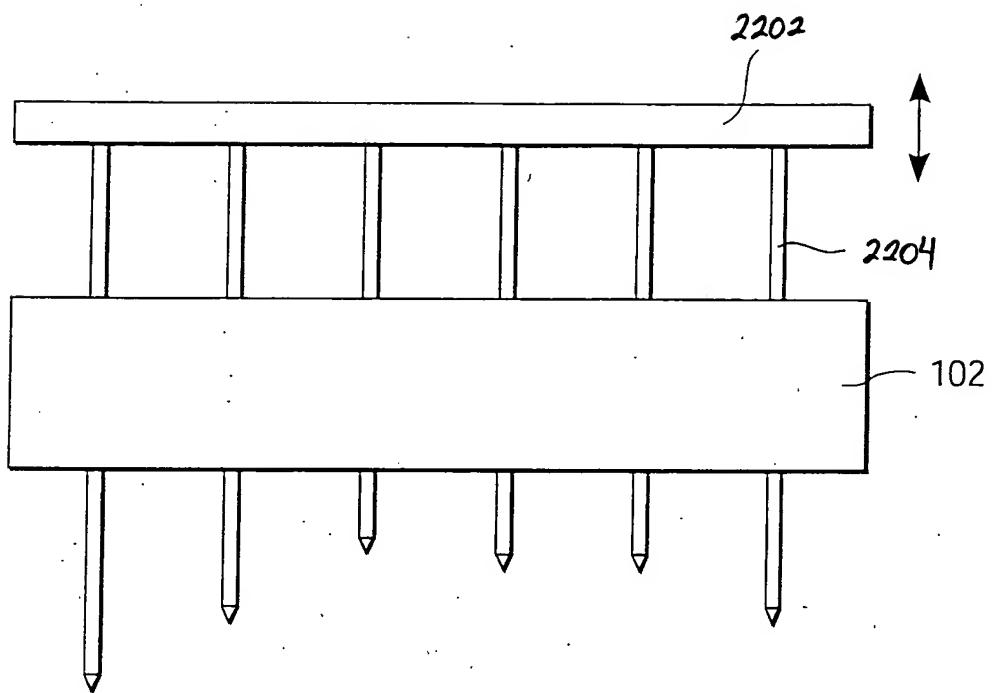


FIG. 22

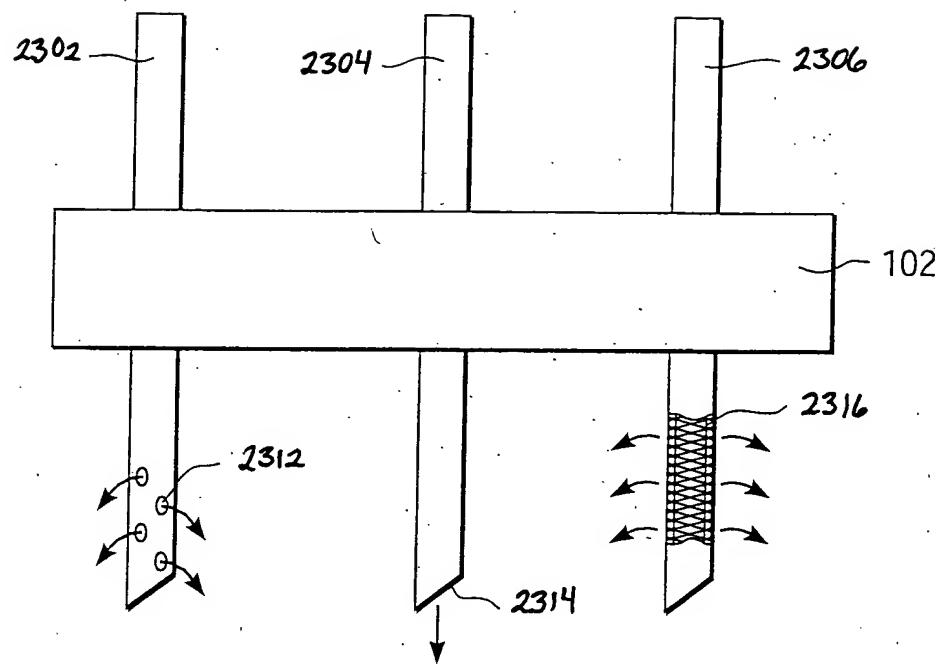


FIG. 23

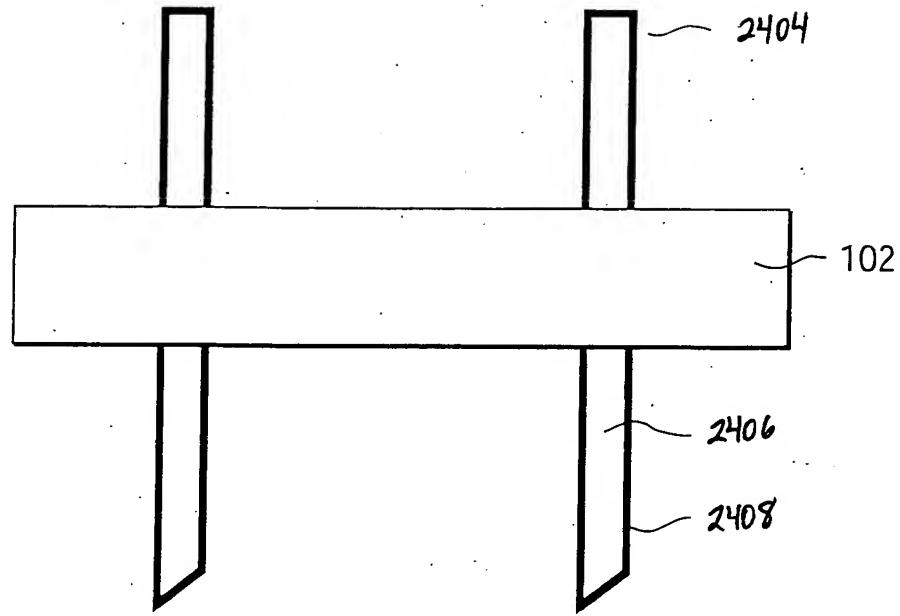


FIG. 24